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(21) International Application Number: <b>PCT/US99/13409</b> (22) International Filing Date: 14 June 1999 (14.06.99) (30) Priority Data: 09/100,684 19 June 1998 (19.06.98) <b>US</b> (71) Applicant: <b>WALKER DIGITAL CORPORATION [US/US];</b> One High Ridge Park, Stamford, CT 06905-1326 (US). (72) Inventors: <b>WALKER, Jay, S.;</b> 124 Spectacle Lane, Ridgefield, CT 06877 (US). <b>TEDESCO, Daniel, E.;</b> Apartment 6, 192 Park Street, New Canaan, CT 06940 (US). <b>PACKES, John, M., Jr.;</b> Apartment 12P, 1435 Bedford Street, Stamford, CT 06905 (US). <b>JORASCH, James, A.;</b> Apartment 5G, 25 Forest Street, Stamford, CT 06901 (US). (74) Agents: <b>ALDERUCCI, Dean et al.;</b> Walker Digital Corporation, Intellectual Property Dept., One High Ridge Park, Stamford, CT 06905 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: <b>METHOD AND APPARATUS FOR FACILITATING ELECTRONIC COMMERCE THROUGH PROVIDING CROSS-BENEFITS DURING A TRANSACTION</b>			
(57) Abstract <p>A merchant server of a first merchant receives an indication (1602) of items that a customer is to purchase via a web site. The indication (1602) may be, for example, a signal indicating that the customer is ready to "check out" his shopping cart of items on the web site. In response, the merchant server provides an offer (1604) for a subsidy from a second merchant. The offer (1604) is provided before the items are purchased, and thus the offer is not provided unless and until the customer has manifested an intent to make a purchase from the first merchant. A response (1606) is received from the customer. If the response (1606) indicates acceptance of the offer, then the subsidy is applied to the items purchased (1610). For example, the total price paid for the items may be reduced, or the items may even be provided to the customer without charge.</p>			
<div style="text-align: right; margin-right: 100px;">1600 →</div> <div style="text-align: right;"><pre>graph TD; 1602[RECEIVE AN INDICATION THAT THE CUSTOMER IS READY TO PURCHASE ITEMS HAVING A TOTAL PRICE] --&gt; 1604[PROVIDE OFFER FOR A SUBSIDY, THE SUBSIDY DEFINING A DISCOUNT AMOUNT APPLIED TO THE CUSTOMER'S PURCHASE AND A SPREAD AMOUNT RETAINED BY THE FIRST MERCHANT]; 1604 --&gt; 1606[RECEIVE CUSTOMER ACCEPTANCE]; 1606 --&gt; 1608[CHARGE CUSTOMER'S ACCOUNT: TOTAL AMOUNT - DISCOUNT AMOUNT]; 1608 --&gt; 1610[CHARGE SECOND MERCHANT'S ACCOUNT: DISCOUNT AMOUNT + SPREAD AMOUNT];</pre></div>			

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METHOD AND APPARATUS FOR FACILITATING ELECTRONIC COMMERCE  
THROUGH PROVIDING CROSS-BENEFITS DURING A TRANSACTION

The present application is a continuation-in-  
5 part application of co-pending Patent Application Serial  
No.08/943 entitled "SYSTEM AND METHOD FOR FACILITATING  
ACCEPTANCE OF CONDITIONAL PURCHASE OFFERS (CPOs)" to  
Andrew S. Van Luchene, Daniel E. Tedesco, James A.  
Jorasch, Jay S. Walker and Thomas M. Sparico filed on  
10 October 3, 1997, which is a continuation-in-part of co-  
pending U.S. patent application Serial No. 08/923,683  
entitled "CONDITIONAL PURCHASE OFFER (CPO) MANAGEMENT  
SYSTEM FOR PACKAGES" to Andrew S. Van Luchene, Daniel E.  
Tedesco, James A. Jorasch, Jay S. Walker and T. Scott  
15 Case filed September 4, 1997, which is a continuation-in-  
part of U.S. patent application Serial No. 08/889,319  
entitled "CONDITIONAL PURCHASE OFFER MANAGEMENT SYSTEM"  
to Bruce Schneier, James A. Jorasch, Jay S. Walker and T.  
Scott Case filed July 8, 1997, which is a continuation-  
20 in-part of U.S. Patent No. 5,794,207 entitled "METHOD AND  
APPARATUS FOR A CRYPTOGRAPHICALLY ASSISTED COMMERCIAL  
NETWORK SYSTEM DESIGNED TO FACILITATE BUYER-DRIVEN  
CONDITIONAL PURCHASE OFFERS" issued to Bruce Schneier,  
James A.Jorasch and Jay S. Walker on August 11, 1998; and  
25 a continuation-in-part of co-pending U.S. patent  
application Serial No. 09/100,684 entitled "BILLING  
STATEMENT CUSTOMER ACQUISITION SYSTEM" to Daniel E.

Tedesco, James A. Jorasch and Jay S. Walker filed on June 19, 1998, which is a continuation-in-part of co-pending U.S. patent application Serial No. 08/982,149 entitled "METHOD AND APPARATUS FOR PRINTING A BILLING STATEMENT TO  
5 PROVIDE SUPPLEMENTARY PRODUCT SALES" to Jay S. Walker, Daniel E. Tedesco, Andrew S. Van Luchene and Dean P. Alderucci filed on December 1, 1997; and a continuation-in-part of co-pending U.S. patent application Serial No. 08/994,426 entitled "METHOD AND APPARATUS FOR PROVIDING  
10 SUPPLEMENTARY PRODUCT SALES TO A CUSTOMER AT A CUSTOMER TERMINAL" to Jay S. Walker, Andrew S. Van Luchene and Daniel E. Tedesco filed on December 19, 1997, which is a continuation-in-part of co-pending U.S. patent Application Serial No. 08/920,116 entitled "METHOD AND  
15 SYSTEM FOR PROCESSING SUPPLEMENTARY PRODUCT SALES AT A POINT-OF-SALE TERMINAL" to Jay S. Walker, James and Andrew S. Van Luchene filed on August 26, 1997, which is a continuation-in-part of co-pending U.S. patent application Serial No. 08/822,709 entitled "SYSTEM AND  
20 METHOD FOR PERFORMING LOTTERY TICKET TRANSACTIONS UTILIZING POINT-OF-SALE TERMINALS" to Jay S. Walker, James A. Jorasch and Sanjay K. Jindal, each of the foregoing applications incorporated herein by reference.

## FIELD OF THE INVENTION

The present invention relates to methods and apparatus for facilitating electronic commerce.

## 5 BACKGROUND OF THE INVENTION

Electronic commerce is becoming more accepted as growing numbers of customers find shopping via the World Wide Web more appealing. However, electronic commerce suffers many problems that have plagued conventional commerce. For example, there is a great deal of competition among merchants to  
10 attract and retain customers that actually make purchases. Price competition is even stronger on the Internet, where customers can more readily “shop around” and determine the prices offered by various merchants.

Even when a customer has browsed a merchant's inventory, he may not make a purchase if an item's price is greater than the customer is willing to pay. One  
15 way to increase customer willingness to purchase, via the World Wide Web or otherwise, is to provide discounts on items purchased. Unfortunately, merchants must use discounts sparingly, since reducing purchase prices likewise reduces profits and the reduced profits may not be offset by increased sales.

It is known for a merchant to offer promotions to provide an incentive  
20 for customers to make purchases. For example, a merchant may offer a “buy one get one free” promotion whereby a purchase of an item yields the benefit of an additional item at no cost. Similarly, a merchant may provide a discount on a purchase in exchange for signing up for a credit card account provided by the merchant.

It is known to provide a promotion among more than one merchant.

For example, a first merchant may advertise that if a product is purchased, a second product may be purchased from or given away by a second merchant.

It is also known for a promotion to be provided at the point of sale.

- 5 For example, a web site of a merchant may provide a "banner advertisement" that allows a customer to go to another site to make a second purchase.

It would be advantageous to facilitate further electronic commerce in a manner that maintained an acceptable level of profits for merchants yet increased a customer's willingness to make purchases.

10

#### SUMMARY OF THE INVENTION

It is an object of the present invention to facilitate electronic commerce.

- 15 In accordance with the present invention, a merchant server of a first merchant receives an indication of items that a customer is to purchase via a web site. The indication may be, for example, a signal indicating that the customer is ready to "check out" his shopping cart of items on the web site. In response, the merchant server provides an offer for a benefit from a second merchant, which may be referred to as a cross-benefit. The offer is provided before the items are purchased, and thus
- 20 the offer is not provided unless and until the customer has manifested an intent to make a purchase from the first merchant. A response to the offer is received from the customer. If the response indicates acceptance of the offer, then the benefit is applied to the items purchased. For example, the total price paid for the items may be reduced, or the items may even be provided to the customer without charge.

In exchange, the customer agrees to participate in a transaction with the second merchant. For example, the customer may be required to switch service providers (e.g. long distance telephone service) or initiate a new service agreement (e.g. sign up for a credit card account). In one embodiment, the customer's agreement  
5 may be secured, such that a penalty is assessed against the customer if he does not participate in the transaction as he agreed to.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic illustration of an apparatus for facilitating  
10 electronic commerce.

FIG. 2 is a schematic illustration of a merchant server of the apparatus of FIG. 1.

FIG. 3 is a representation of a customer database of the merchant server of FIG. 2.

15 FIG. 4 is a representation of an item database of the merchant server of FIG. 2.

FIG. 5 is a representation of a transaction database of the merchant server of FIG. 2.

20 FIG. 6 is a representation of a subsidizer database of the merchant server of FIG. 2.

FIG. 7 is a representation of an offer rules database of the merchant server of FIG. 2.

FIG. 8 is a representation of an offers database of the merchant server of FIG. 2.

FIG. 9 is a representation of a record of an offer summary database of the merchant server of FIG. 2.

FIG. 10 is a flow chart illustrating an embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a  
5 merchant.

FIG. 11 is an exemplary web page.

FIG. 12 is another exemplary web page.

FIGS. 13A and 13B are a flow chart illustrating another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items  
10 from a merchant.

FIGS. 14A and 14B are a flow chart illustrating another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a merchant.

FIG. 15 is a flow chart illustrating another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a  
15 merchant.

FIG. 16 is a flow chart illustrating another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a  
merchant.  
20

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Applicants have recognized that the acquisition budgets of various service providers may be advantageously used to facilitate electronic commerce. A customer that is purchasing items from a first merchant may be paid by a second  
25 merchant, so that the customer pays a reduced price, or nothing at all, for his desired



items. In exchange, the customer signs up or agrees to sign up for a service that is provided by the second merchant. Since many service providers are willing to pay significant amounts of money (e.g. often \$50 to \$200) to acquire a new customer, the ability to acquire a customer by essentially "intervening" in a sale between others can benefit all parties involved. The customer is benefited by the reduced price of his items, the first merchant is benefited by the increased sales that such an arrangement would bring, and the second merchant is benefited by the acquisition of a new customer.

Furthermore, by presenting offers for such "cross-subsidies" only after a customer is ready to buy items, the merchant may reduce the chance that customers will merely "bargain shop", rather than make purchases.

In addition, a number of benefits may be offered besides reduced prices. For example, the first merchant may alternatively provide the customer with an upsell (e.g. a product upgrade for no additional cost).

Referring to FIG. 1, an apparatus 100 includes a merchant server 110 that is in communication with a customer terminal 120 and with subsidizing merchant servers 130, 140 and 150. The merchant server 110 may communicate with the customer terminal 120 and subsidizing merchant servers 130, 140 and 150 via an appropriate network such as the Internet. Each of the customer terminal 120 and with subsidizing merchant servers 130, 140 and 150 may comprise computers, such as those based on the Intel® Pentium® microprocessor, that are adapted to communicate via the Internet (e.g. via a modem). Any number of subsidizing merchant servers and customer terminals may be in communication with the merchant server 110.

The merchant server 110 may be a "web server" of a merchant. The merchant server 110 can generate a web page that may be accessed via the World

Wide Web and allow purchases from the merchant to be made in a manner known in the art. A customer terminal may appropriately access the web page to communicate with the merchant server 110 in a manner that is also known to those skilled in the art.

Referring to FIG. 2, the merchant server 110 comprises a processor  
5 200, such as the Intel® Pentium® microprocessor. The processor 200 is in communication with a data storage device 210, such as an appropriate combination of magnetic, optical and/or semiconductor memory. For example, the data storage device 210 may comprise one or more of a ROM, RAM and hard disk. The processor 200 and the data storage device 210 may each be (i) located entirely within a single  
10 computer or other computing device; (ii) connected to each other by a remote communication medium, such as a serial port cable, telephone line or radio frequency transceiver; or (iii) a combination thereof. In one embodiment, the merchant server 110 may comprise one or more computers that are connected to a remote server computer for maintaining databases.

15 The data storage device 210 stores a program 220 for controlling the processor 200. The processor 200 performs instructions of the program 220, and thereby operates in accordance with the present invention, and particularly in accordance with the methods described in detail herein. The program 220 furthermore includes program elements that may be necessary, such as an operating  
20 system and "device drivers" for allowing the processor 200 to interface with computer peripheral devices. Appropriate device drivers and other necessary program elements are known to those skilled in the art, and need not be described in detail herein.

The storage device 210 also stores (i) a customer database 230, (ii) a item database 240, (iii) a transaction database 250, (iv) a subsidizer database 260, (v)  
25 an offer rules database 270, (vi) an offers database 280 and (vii) an offer summary

database 290. The databases 230, 240, 250, 260, 270, 280 and 290 are described in detail below and depicted with exemplary entries in the accompanying figures. As will be understood by those skilled in the art, the schematic illustrations and accompanying descriptions of the databases presented herein are exemplary  
5 arrangements for stored representations of information. A number of other arrangements may be employed besides those suggested by the tables shown. Similarly, the illustrated entries of the databases represent exemplary information, and those skilled in the art will understand that the number and content of the entries can be different from those illustrated herein.

10 Referring to FIG. 3, a table 300 represents an embodiment of the customer database 230 (FIG. 2). The table 300 includes entries 302, 304, 306 and 308, each defining a customer that may purchase items via the merchant server 110 (FIG. 1). Those skilled in the art will understand that the table 300 may include any number of entries. The table 300 also defines fields for each of the entries 302, 304,  
15 306 and 308. The fields specify (i) a customer identifier 320 that uniquely identifies the customer, (ii) a name 322 of the customer, (iii) a billing address 324 of the customer, (iv) credit card information 326 which may be used to render payment in purchasing the items, and (v) an electronic mail ("email") address 328 for communication with the customer.

20 Referring to FIG. 4, a table 400 represents an embodiment of the item database 240 (FIG. 2). The table 400 includes entries 402 and 404, each defining an item sold via the merchant server 110 (FIG. 1). Those skilled in the art will understand that the table 400 may include any number of entries. The table 400 also defines fields for each of the entries 402 and 404. The fields specify (i) a item  
25 identifier 420 that uniquely identifies the item, (ii) an item description 422, (iii) an

item price 424 for which the item is typically sold, and (iv) an availability 426 of the item which may be based on an inventory level of the item.

Referring to FIG. 5, a table 500 represents an embodiment of the transaction database 250 (FIG. 2). The table 500 includes entries 502, 504 and 506, each defining a transaction with the merchant server 110 (FIG. 1). Typically, the transaction includes a purchase of items by a customer. Those skilled in the art will understand that the table 500 may include any number of entries. The table 500 also defines fields for each of the entries 502, 504 and 506. The fields specify (i) a transaction identifier 520 that uniquely identifies the transaction, (ii) a time 522 of the transaction, (iii) the items ordered 524, (iv) credit card information 526 that may define a credit card account that was charged to pay for the items purchased, (v) an amount charged 528 for the items, (vi) a delivery address 530 for the items, and (vii) a customer identifier 532 (if any) that identifies the customer that made the purchase.

Referring to FIG. 6, a table 600 represents an embodiment of the subsidizer database 260 (FIG. 2). The table 600 includes entries 602, 604 and 606, each defining a party (e.g. another merchant) that may subsidize purchases made via the merchant server 110 (FIG. 1). Those skilled in the art will understand that the table 600 may include any number of entries. The table 600 also defines fields for each of the entries 602, 604 and 606. The fields specify (i) a subsidizing party identifier 620 that uniquely identifies the subsidizing party, (ii) a name 622 of the subsidizing party, (iii) an account 624 used to pay for the subsidies, and (iv) an amount owed 626 by the subsidizing party to the merchant.

Referring to FIG. 7, a table 700 represents an embodiment of the offer rules database 270 (FIG. 2). The table 700 includes entries 702, 704, 706, 708 and 710, each defining an offer rule. When an offer rule is satisfied during a transaction,

the merchant provides an offer for a specified benefit, such as a subsidy. Those skilled in the art will understand that the table 700 may include any number of entries. The table 700 also defines fields for each of the entries 702, 704, 706, 708 and 710. The fields specify (i) an offer rule identifier 720 that uniquely identifies the offer rule,  
5 (ii) a subsidizing party identifier 722 that uniquely identifies the subsidizing party, (iii) a subsidy amount 724, (iv) when the offer rule is effective (i.e. when the offer rule is satisfied), and (v) an additional transaction 728 that is required of the customer in exchange for the subsidy. As described below, several types of transactions, such as additional purchases or initiating service agreements, may be required of the  
10 customer.

Referring to FIG. 8, a table 800 represents an embodiment of the offers database 280 (FIG. 2). The table 800 includes entries 802, 804, 806, 808 and 810, each defining an offer for a subsidy. The offer was provided to a customer during a transaction of the customer with the merchant. Those skilled in the art will  
15 understand that the table 800 may include any number of entries. The table 800 also defines fields for each of the entries 802, 804, 806, 808 and 810. The fields specify (i) an offer identifier 820 that uniquely identifies the offer, (ii) a transaction identifier 822 that uniquely identifies the transaction during which the offer was provided, (iii) a subsidizing party identifier 824 that uniquely identifies the subsidizing party, (iv) an  
20 identifier of an offer rule 826 that was satisfied during the transaction, (v) a subsidy amount 828, (vi) a total price 830 that the customer would have to pay without the subsidy, (vii) a total price 832 that the customer would have to pay with the subsidy, and (viii) whether the offer was accepted 834. As described above with reference to FIG. 7, offer rules define specific subsidies. Thus, the identifier of an offer rule  
25 stored in field 826 may be used to determine a corresponding subsidy amount.

Referring to FIG. 9, a table 900 represents a record of an embodiment of the offer summary database 290 (FIG. 2). The offer summary database 290 typically includes a plurality of records, each defining a summary of offers for subsidies that have been provided on behalf of a subsidizing party. The table 900 includes a subsidizing party identifier 902 that uniquely identifies the subsidizing party, a total number of offers provided 904 on behalf of the subsidizing party, a total number of those offers that were accepted 906, and a total amount 908 of the subsidies due in connection with accepted offers.

The table 900 also includes entries 910 and 912, each defining offers provided due to satisfaction of an offer rule of the subsidizing party. Those skilled in the art will understand that the table 900 may include any number of entries. The table 900 also defines fields for each of the entries 910 and 912. The fields specify (i) an offer rule identifier 920 that uniquely identifies the offer rule, (ii) a number 922 of offers provided due to the offer rule, (iii) a number 924 of these offers that were accepted, (iv) an amount 926 of the subsidies due in connection with these accepted offers.

Referring to FIG. 10, a flow chart 1000 illustrates an embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a merchant. In one embodiment, the illustrated method is performed by the merchant server 110 after the customer has accessed a web page generated and/or controlled by the merchant server 110.

The merchant server 110 receives an indication that the customer is to purchase items from the web site of the merchant (step 1002). For example, after a customer accesses the web site, the customer may select one or more items to purchase, and "click" a button that indicates that the customer desires to purchase the

selected items. The act of clicking could generate a signal that the merchant server 110 interprets as an indication that the customer is to purchase the selected items. In another embodiment, the act of accessing the web site could generate a signal that the merchant server 110 interprets as an indication that the customer is to purchase the  
5 selected items. Those skilled in the art will understand still other types of appropriate indications.

Before the customer purchases the items, the merchant server 110 provides the customer with an offer for a subsidy (step 1004). For example, the web page may display text describing the subsidy. In one embodiment, the web page may  
10 be dynamically modified to include a button that, when clicked, indicates acceptance of an offer for a subsidy. Alternatively, the offer may be transmitted to the customer via email or other means.

A response to the offer is received from the customer (step 1006). For example, the customer may click a button on the web page or click on a hyperlink on  
15 the web page. If it is determined that the offer is not accepted (step 1008), then the transaction is processed conventionally (step 1010). For example, the items are purchased for the conventional total price, and a credit card account of the customer is charged appropriately.

If it is determined that the offer is accepted (step 1008), then the  
20 subsidy is applied to the items (step 1012) and the items are sold to the customer with the benefit of the subsidy (step 1014).

Referring to FIG. 11, an exemplary web page 1100 illustrates a possible means for providing an offer for a benefit and receiving an acceptance of the offer. The web page 1100 illustrates an embodiment in which the merchant sells  
25 books via the World Wide Web. A book that the customer is ready to purchase is

indicated by text 1102, and a quantity of that book (one book in FIG. 11) is indicated by text 1104. A price of the books is indicated by text 1106, and similarly a total price (e.g. the sum of item prices and any other prices) due from the customer is indicated by text 1108.

5                   A button 1110 is clicked by the customer if the customer desires to purchase the specified items and thereby consummate the purchase. Upon clicking the button 1110, the items may be immediately deemed as having been purchased by the customer. A button 1112 is clicked by the customer if the customer desires to accept an offer for a subsidy. Alternatively, actuating the button 1112 may indicate  
10                   that the customer is interested in further information regarding an offer for a subsidy, and the customer may subsequently indicate whether he accepts the offer.

Referring to FIG. 12, a second exemplary web page 1200 allows the customer to provide customer information via a form having fields 1202 that receive entered text. The customer information is used in applying for a credit card account  
15                   with a credit card issuer. In one embodiment, the web page 1200 may be displayed after the customer clicks the button 1110 of FIG. 11. Information that is entered via the web page 1200 may be transmitted to the merchant server 110 upon actuation of a button 1204. Actuation of the button 1204 may furthermore indicate acceptance of the offer for the subsidy. For example, actuation of the button 1204 may indicate a  
20                   willingness to apply for a credit card account, or that the customer has applied for the credit card account. Conversely, actuation of the button 1206 may indicate rejection of the offer for the subsidy.

Referring to FIGS. 13A and 13B, a flow chart 1300 illustrates another embodiment of a method for providing an offer for a benefit to a customer that is to  
25                   purchase items from a merchant. The merchant server 110 receives an indication that



the customer is ready to purchase items from the web site of a first merchant (step 1302). A customer may indicate his readiness to purchase by, for example, selecting items to purchase and actuating a specific button that consummates the purchase of the items. Before the customer purchases the items, the merchant server 110 provides  
5 the customer with an offer for a subsidy from a second merchant (step 1304). Subsequently, a response from the customer is received (step 1306).

If it is determined that the offer is not accepted (step 1308), then the transaction is processed conventionally (step 1310). If however it is determined that the offer is accepted (step 1308), then customer information is received (step 1312).  
10 Such customer information may be used in providing or facilitating an additional transaction that is required of the customer in exchange for the subsidy. In one embodiment described in further detail below, in exchange for the subsidy the customer agrees to initiate a new service agreement, so that a service is provided by the second merchant. Accordingly, the customer information may comprise an  
15 indication of a service that is provided to the customer (e.g. whether the customer has cable television service), or a service provider that provides a service to the customer (e.g. which company provides cable television service to the customer). The additional transaction may occur after a significant amount of time has elapsed. Accordingly, in one embodiment there is a means for determining if the future action  
20 has occurred.

Furthermore, a penalty may be assessed against the customer if the customer does not perform the required additional transaction. For example, the subsidy to the customer may be canceled and the transaction may then be processed conventionally. Alternatively, a penalty fee may be charged to the customer.

Similarly, a penalty could be assessed if another imposed condition is violated. For example, a penalty could be assessed if the items are purchased and then returned. Accordingly, in such an embodiment a returnable purchase is made a non-returnable purchase in exchange for the subsidy or other benefit.

5               The customer information may be received from the customer. In one embodiment, the merchant server 110 can request that the customer provide customer information. For example, the merchant server 110 may transmit a form (e.g. via the web site) including questions to be answered. In response, the merchant server would receive answers to the questions, and these answers would constitute the customer  
10 information from the customer.

              In another embodiment, the customer information may be received from a party other than the customer. For example, information regarding the customer may be received from a third-party database (e.g. a list of addresses to provide a location of the customer). Alternatively, customer information may be  
15 received from an ISP (Internet Service Provider), which can provide information such as an Internet address of the customer.

              In still another embodiment, the customer information may be received via a "cookie" stored on the customer terminal 120 (FIG. 1). Those skilled in the art will understand that a great variety of data may be stored in such cookies, and  
20 information may be stored in the cookie in response to various events such as the web sites that are visited by the customer.

              The merchant server 110 may verify whether the customer information is accurate (step 1314). For example, if the information is provided by the customer, it can be advantageous to assure that the customer information is not false. To  
25 provide a further incentive for the customer to provide accurate customer information,

a penalty may be assessed against the customer if the customer information is not accurate. For example, if it is determined that the customer information is not accurate (step 1316), the subsidy to the customer may be canceled and the transaction is processed conventionally (step 1310). Alternatively, a penalty fee may be charged  
5 to the customer if it is determined that the customer information is not accurate. In such an embodiment, it may be further advantageous to verify the customer information before the purchase is consummated. Thus, the threat that the subsidy will not be forthcoming can give the customer an incentive to provide accurate information.

10                   If it is determined that the customer information is accurate (step 1316), then the merchant server 110 determines the amount of the subsidy (step 1318). The subsidy amount is typically stored in the offer rules database 270 (FIG. 2). The subsidy amount may be, for example, a predetermined amount or a predetermined percentage (e.g. a predetermined percentage of the total price). The  
15 subsidy amount may also be limited, such that the price charged cannot be lower than zero. For example, a subsidy amount may be "up to \$100 off, but no more than the total price".

                  The subsidy amount is subtracted from the total price of the items (step 1320) and the items are sold for the reduced total price (step 1322). Alternatively,  
20 instead of the total price being reduced, a price of one or more items (e.g. items of a certain type or promotional items) may be reduced to provide an incentive to purchase these items. In summary, accepting the subsidy allows the items to be sold to the customer for a lesser price, and the items may even be provided to the customer without charge.

Referring to FIGS. 14A and 14B, a flow chart 1400 illustrates another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a first merchant. The merchant server 110 receives a signal indicating that the customer is ready to "check out" his "shopping cart" of items on the web site of the first merchant (step 1402). As is understood by those skilled in the art, a shopping cart of items on a web site defines a set of items the customer desires to purchase. Checking out the shopping cart indicates a desire to proceed with purchasing the selected items.

Before the customer purchases the items, the merchant server 110 provides the customer with an offer for a reduction in the total price in exchange for signing up for a service with a second merchant (step 1404). For example, the service may be telephone service, Internet service, banking services, credit card account services, insurance service, securities trading service, satellite television service, or cable television service. Accordingly, the second merchant would be a provider of such services, and the customer would be requested to participate in a transaction (e.g. initiate a service agreement with) with the second merchant.

Subsequently, a response from the customer is received (step 1406). If it is determined that the offer is not accepted (step 1408), then the transaction is processed conventionally (step 1410). If however it is determined that the offer is accepted (step 1408), then a current service provider of the customer (i.e. a party that provides a specified service to the customer) is determined (step 1412). The customer may be asked to provide information of the current provider, or this information may be determined from other sources. For example, one or more databases may be accessed to determine the long distance telephone service provider of the customer.

Alternatively, the second merchant may allow access to a database of its existing customers.

If it is determined that the customer has a service provider (step 1414), and it is determined that the second merchant already provides the customer with the specified service (step 1416), then the transaction is processed conventionally (step 1410). If it is determined that the customer has a service provider (step 1414), but it is determined that the second merchant does not provide the customer with the specified service (step 1416), then the customer must have a service agreement with another service provider. Accordingly, the existing service agreement is canceled (step 1418).

If it is determined that the customer does not have a service provider of the specified service at all (step 1414), (or if the merchant server 110 will cancel or has canceled the existing service agreement) then a new service agreement is initiated with the second merchant (step 1420). Thus, the second merchant has acquired a new customer, either by signing up the customer for a new service or by switching providers of the specified service that is provided to the customer. In exchange, the total price of the shopping cart of items is reduced by the amount of the subsidy (step 1422), and the items are sold for this reduced total price (step 1424).

Referring to FIG. 15, a flow chart 1500 illustrates another embodiment of a method for providing an offer for a benefit to a customer that is to purchase items from a first merchant. The merchant server 110 receives an indication that the customer is ready to purchase items from the web site of a first merchant (step 1502). The merchant server 110 may also receive customer information (step 1504), as described above. The customer information may comprise, for example, a location of the customer or a current service provider of the customer.

A set of subsidies for which the customer may be eligible is determined (step 1506). In one embodiment, the set of subsidies is determined based on customer information. For example, upon reference to the customer information, one or more offer rules may be satisfied. The corresponding subsidies would then be included in the set of subsidies. In another embodiment, the offer rules may be satisfied without reference to customer information. For example, an offer rule may be satisfied if the total price of the items (or the price of any of the item) is greater than a predetermined threshold. In yet another embodiment, one or more subsidizing merchants may be contacted, customer information may be transmitted to the subsidizing merchants, and in response the subsidizing merchants may transmit to the merchant server 110 a description of a subsidy to offer.

Offers for each of the subsidies may be provided to the customer (step 1508) for the customer to select one (or more). For example, each offer may be listed on a web page, and the customer must click a hyperlink corresponding to his desired offer. The customer selection is received (step 1510) and the corresponding subsidy is applied to the customer's purchase (step 1512). Alternatively, the customer may be similarly prompted to select a merchant from a plurality of merchants, and the customer would subsequently be provided with an offer for a subsidy from the selected merchant.

Referring to FIG. 16, a flow chart 1600 illustrates another embodiment of a method for providing an offer for a benefit. In particular, the illustrated flow chart 1600 shows the exchange of payment among the parties. The merchant server 110 receives an indication that the customer is ready to purchase items having a total price (step 1602). In response, the merchant server 110 provides an offer for a subsidy (step 1604). The subsidy defines a discount amount that is applied to the

customer's purchase. The subsidy also defines a spread amount that is retained by the first merchant.

Once the customer acceptance is received (step 1606), the customer's account (e.g. a credit card account) is charged by the total amount less the discount amount (step 1608). Similarly, an account of the second merchant is charged by the sum of the discount amount and the spread amount. The second merchant may be charged substantially immediately (e.g. immediately after the customer accepts). In another embodiment, the customer may be charged at predefined intervals (e.g. once per month).

Although the present invention has been described with respect to a preferred embodiment thereof, those skilled in the art will note that various substitutions may be made to those embodiments described herein without departing from the spirit and scope of the present invention.

What is claimed is:

1. A method, comprising:  
receiving an indication of at least one item that a customer is to purchase from  
5 a first merchant via a web site;  
providing, in response to the received indication, an offer for a benefit from a  
second merchant, the step of providing the offer being performed before the at least  
one item is purchased;  
receiving from the customer a response to the offer; and  
10 applying the benefit to the at least one item if the response indicates  
acceptance of the offer.
2. The method of claim 1, further comprising:  
receiving customer information.  
15
3. The method of claim 2, in which the customer information comprises:  
a service that is provided to the customer.
4. The method of claim 2, in which the customer information comprises:  
20 a service provider that provides a service to the customer.
5. The method of claim 2, in which the step of providing an offer for a benefit  
from a second merchant comprises:  
selecting a merchant from a plurality of merchants based on the customer  
25 information received from the customer; and



providing an offer for a benefit from the selected merchant.

6. The method of claim 2, in which the step of providing an offer for a benefit from a second merchant comprises:

5 selecting the benefit based on the customer information received from the customer.

7. The method of claim 2, in which the step of receiving customer information comprises:

10 requesting that the customer provide customer information; and  
receiving, in response to the step of requesting, customer information from the customer.

8. The method of claim 7, in which the step of requesting that the customer

15 provide customer information comprises:

transmitting to the customer at least one question to be answered.

9. The method of claim 8, in which the step of receiving customer information from the customer comprises:

20 receiving at least one answer to the at least one question.

10. The method of claim 2, further comprising:  
verifying whether the customer information is accurate.

25 11. The method of claim 10, further comprising:

assessing a penalty against the customer if the customer information is not accurate.

12. The method of claim 11, in which the step of assessing the penalty comprises:  
5 canceling the benefit if the customer information is not accurate.

13. The method of claim 11, in which the step of assessing the penalty comprises:  
charging a penalty fee to the customer if the customer information is not  
accurate.

10

14. The method of claim 10, in which the step of verifying is performed before the purchase is consummated.

15. The method of claim 2, in which the step of providing the offer is performed  
15 after the customer information is received.

16. The method of claim 15, in which the step of providing the offer is performed based on the customer information.

20 17. The method of claim 1, further comprising:  
receiving customer information from a party other than the customer.

18. The method of claim 2, in which the step of receiving customer information comprises:  
25 receiving information regarding at least one of:

a location of the customer, and  
an Internet address of the customer.

19. The method of claim 1, in which the step of applying the benefit comprises:  
5 reducing a price of the at least one item.
20. The method of claim 19, in which the step of reducing the price comprises:  
reducing the price of the at least one item by a predetermined amount.
- 10 21. The method of claim 20, in which the step of reducing the price comprises:  
reducing the price of the at least one item by a predetermined amount if the  
price of the at least one item is greater than the predetermined amount.
22. The method of claim 19, in which the step of reducing the price comprises:  
15 reducing the price of the at least one item by a predetermined percentage.
23. The method of claim 19, in which the step of reducing the price comprises:  
reducing the price of the at least one item to zero.
- 20 24. The method of claim 1, in which the step of applying the benefit comprises:  
selling the at least one item to the customer for a first price if the response  
indicates rejection of the offer; and  
selling the at least one item to the customer for a second price if the response  
indicates acceptance of the offer, the second price being less than the first price.

25. The method of claim 24, in which the second price is a predetermined amount less than the first price.
26. The method of claim 25, in which the second price is a predetermined amount less than the first price if the first price is greater than the predetermined amount.
27. The method of claim 24, in which the second price is a predetermined percentage less than the first price.
28. The method of claim 1, in which the step of applying the benefit comprises: providing the at least one item to the customer without charge if the response indicates acceptance of the offer.
29. The method of claim 1, further comprising: requesting that the customer participate in a transaction with the second merchant.
30. The method of claim 29, in which the step of requesting that the customer participate in a transaction with the second merchant comprises: requesting that the customer initiate a service agreement with the second merchant.
31. The method of claim 1, further comprising: receiving an indication of agreement to participate in a transaction with the second merchant.

32. The method of claim 1, further comprising:  
facilitating a transaction with the second merchant.

5 33. The method of claim 32, in which the step of facilitating the transaction with  
the second merchant comprises:  
determining a service provider that provides a service to the customer.

34. The method of claim 33, in which the step of facilitating the transaction with  
10 the second merchant comprises:  
canceling a service agreement with the service provider.

35. The method of claim 33, in which the step of facilitating the transaction with  
the second merchant comprises:  
15 initiating a new service agreement so that the service is provided by the  
second merchant.

36. The method of claim 33, in which the step of determining a service provider  
that provides a service to the customer comprises:  
20 determining whether the service is provided by the second merchant.

37. The method of claim 32, in which the step of facilitating the transaction with  
the second merchant comprises:  
switching providers of a service that is provided to the customer.

38. The method of claim 37, in which the service comprises at least one of:

telephone service,

Internet service,

banking services,

5 credit card account services,

insurance service,

securities trading service,

satellite television service, and

cable television service.

10

39. The method of claim 32, in which the step of facilitating the transaction with the second merchant comprises:

initiating a new service agreement so that a service is provided to the customer.

15

40. The method of claim 39, in which the service comprises at least one of:

telephone service,

Internet service,

banking services,

20 credit card account services,

insurance service,

securities trading service,

satellite television service, and

cable television service.

25

41. The method of claim 1, in which the step of providing an offer is performed only if a price of the at least one item is greater than a predetermined threshold.

42. The method of claim 1, in which the step of providing an offer is performed  
5 only a predetermined rule is satisfied.

43. The method of claim 1, in which the step of providing an offer for a benefit from a second merchant comprises:

providing a plurality of offers for benefits from at least one merchant.

10

44. The method of claim 43, further comprising:  
receiving from the customer a selection of an offer of the plurality of offers.

45. The method of claim 1, in which the step of providing an offer for a benefit  
15 from a second merchant comprises:

selecting a merchant from a plurality of merchants; and

providing an offer for a benefit from the selected merchant.

46. The method of claim 1, in which the benefit is based on the at least one item.

20

47. The method of claim 46, in which the benefit is based on a price of the at least one item.

48. The method of claim 1, in which the step of providing an offer for a benefit  
25 from a second merchant comprises:

selecting a benefit from a plurality of benefits based on the at least one item.

49. The method of claim 1, further comprising:

receiving an amount of payment from the second merchant if the response

5 indicates acceptance of the offer.

50. The method of claim 1, in which the benefit is based on the amount of payment.

10 51. A method, comprising:

receiving an indication of at least one item that a customer is ready to purchase from a merchant via a web site, the at least one item having an associated total price;

providing, in response to the received indication, an offer for a subsidy, the step of providing the offer being performed before the item is purchased;

15 receiving from the customer a response to the offer; and

charging an amount that is less than the total price if the response indicates acceptance of the offer.

52. The method of claim 51, in which the step of charging comprises:

20 charging an amount that is less than the total price to a credit card account of the customer.

53. The method of claim 51, further comprising:

receiving payment from a second merchant if the response indicates

25 acceptance of the offer.



54. A method, comprising:

receiving an indication of at least one item that a customer is ready to purchase from a merchant via a web site, the at least one item having an associated total price;

5 providing, in response to the received indication, an offer for a reduction in the total price, the step of providing the offer being performed before the at least one item is purchased;

receiving from the customer an acceptance of the offer; and

selling the at least one item to the customer for less than the total price.

10

55. A method, comprising:

receiving an indication of at least one item that a customer is ready to purchase from a merchant via a web site, the at least one item having an associated total price;

providing, in response to the indication, an offer for a subsidy from a second

15 merchant in exchange for agreeing to perform a transaction with the second merchant, the step of providing the offer being performed before the at least one item is purchased;

receiving from the customer an acceptance of the offer;

facilitating the transaction with the second merchant;

20 receiving a request to revoke the acceptance before the at least one item is purchased; and

canceling the second transaction.

56. A method, comprising:

receiving an indication of at least one item that a customer is ready to purchase from a merchant via a web site, the at least one item having an associated total price;

providing, in response to the received indication, an offer for a reduction in the total price in exchange for applying for a credit card account with a credit card issuer,

5 the step of providing the offer being performed before the at least one item is purchased;

receiving, from the customer, an indication of willingness to apply for a credit card account; and

selling the at least one item to the customer for less than the total price.

10

57. The method of claim 56, in which the step of receiving, from the customer, an indication of willingness to apply for a credit card account comprises:

receiving, from the customer, information for use in applying for a credit card account.

15

58. The method of claim 57, further comprising:

transmitting to the customer a form for receiving information for use in applying for a credit card account.

20 59. The method of claim 56, further comprising:

determining whether the customer already has a credit card account with the credit card issuer.

60. The method of claim 59, in which the step of providing the offer is only performed if it is determined that the customer does not already have a credit card account with the credit card issuer.

- 5 61. A method, comprising:
- receiving an indication that a customer is willing to make a purchase from a first merchant;
  - receiving customer information;
  - transmitting, in response to the indication, customer information to a second
  - 10 merchant;
  - receiving, from the second merchant, a description of a subsidy;
  - providing an offer for the subsidy from the second merchant, the step of providing the offer being performed before the purchase is consummated;
  - receiving a response to the offer; and
  - 15 applying the subsidy to the purchase if the response indicates acceptance of the offer.

62. A method, comprising:
- generating an interface for allowing a customer to access a web site that
  - 20 permits purchases from a first merchant, the interface including a button;
  - receiving a first indication that a customer is willing to make a purchase from a first merchant;
  - activating the button in response to receiving the indication;
  - receiving a signal that the customer has clicked the button;

providing, in response to the received signal, an offer for a subsidy from a second merchant, the step of providing the offer being performed before the purchase is consummated;

receiving from the customer a response to the offer; and

5       applying the subsidy to the purchase if the response indicates acceptance of the offer.

63.   A method, comprising:

receiving an indication of at least one item that a customer is ready to purchase  
10   from a merchant via a web site, the at least one item having an associated total price;

providing, in response to the received indication, an offer for a reduction in the total price in exchange for applying for a credit card account with a credit card issuer, the step of providing the offer being performed before the at least one item is purchased;

15       receiving, from the customer, an indication of willingness to apply for a credit card account;

selling the at least one item to the customer for less than the total price; and  
charging the credit card issuer for an amount of payment.

20   64.   The method of claim E, in which the step of selling comprises:

selling the at least one item to the customer for an amount that is based on a difference between the total price and the amount of payment charged to the credit card issuer.

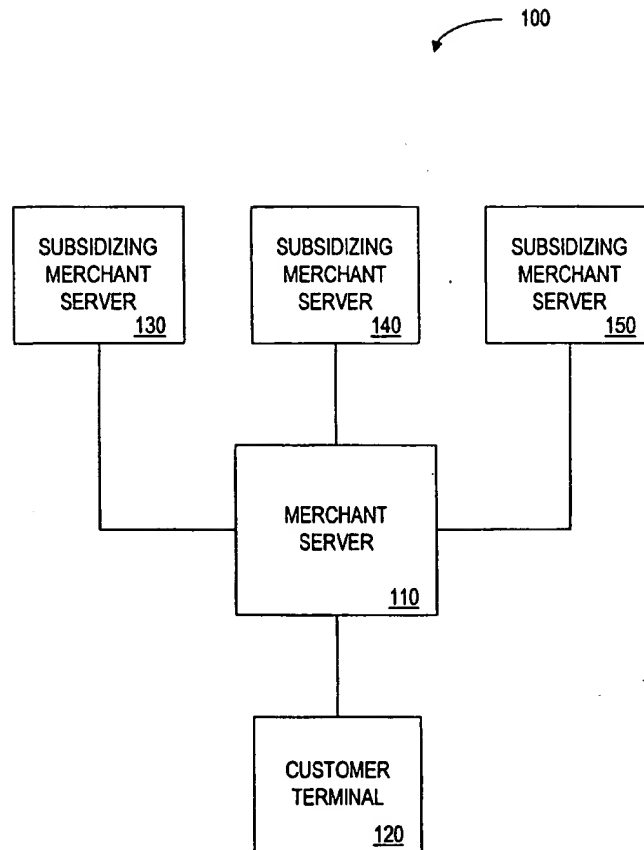


FIG. 1

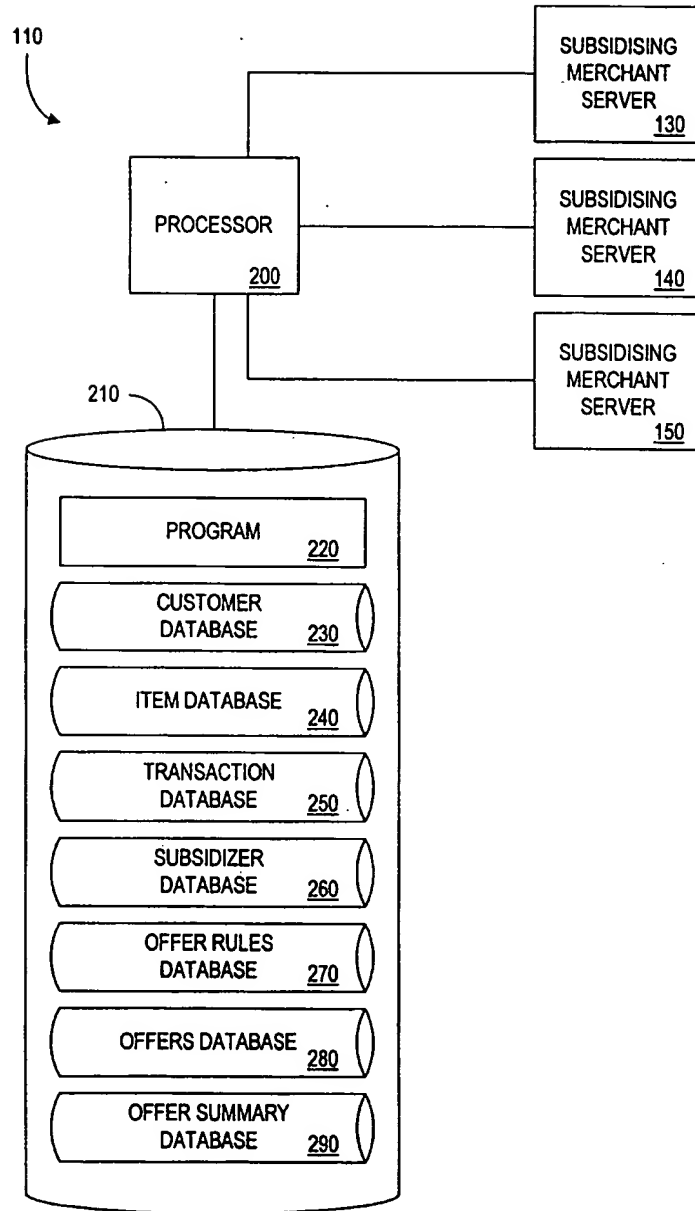


FIG. 2

300

CUSTOMER IDENTIFIER 320	NAME 322	BILLING ADDRESS 324	CREDIT CARD INFORMATION 326	E-MAIL 328
C0001	DAN MANN	123 MAIN ST.	VISA 1111-1111- 1111-1111	DMANN@ ISP.COM
C0002	STEVE DAVIS	3 RIVERPLACE ROAD	AMEX 4444-555 6666-3333	SDAVIS@ SCHOOL.EDU
C0003	JEFF SMITH	2 THRUSH LANE	DIS 2222-3333 4444-7777	SMITH@ WEBTV.COM
C0004	GEORGE ALAN	15 LAUREL AVENUE	VISA 1111-4444- 8888-3333	ALAN@ WORK.COM

302  
304  
306  
308

FIG. 3

400

ITEM IDENTIFIER 420	ITEM DESCRIPTION 422	ITEM PRICE 424	AVAILABILITY 426
P001	WAR AND PEACE	\$13.95	IN STOCK
P002	SUN TZU: THE ART OF WAR	\$15.95	AVAILABLE IN 2-3 DAYS

402

404

FIG. 4



500

TRANSACTION IDENTIFIER 520	TIME OF TRANSACTION 522	ITEMS ORDERED 524	CREDIT CARD INFORMATION 526	AMOUNT CHARGED 528	DELIVERY ADDRESS 530	CUSTOMER IDENTIFIER 532
T 000 001	1/4/2001 8:07 AM	P038, P049, P812	VISA 1111-1111- 1111-1111 EXP. 3/2002	\$49.87	123 MAIN ST. TOWN, USA	NONE
T 000 002	1/9/2001 9:00 PM	P123	MASTERCARD 2222-2222- 2222-2222 EXP. 9/2002	\$0.00	9876 PARK AVE. CITY, USA	C1234
T 000 003	1/10/2001 3:02 AM	P456, P789, P789	AMEX 9999-9999- 9999-9999 EXP. 4/2005	\$0.00	24 SHADY LA. TOWN, USA	C5678

502

504

506

FIG. 5

600

SUBSIDIZING PARTY IDENTIFIER 620	SUBSIDIZING PARTY NAME 622	ACCOUNT 624	AMOUNT OWED TO MERCHANT 626
S001	CREDIT CARD COMPANY X	BANK ACCOUNT #2345678	\$855.00
S002	LONG DISTANCE TELEPHONE Y	MC 1111-2222- 3333-4444	\$4,390.00
S003	SATELLITE TELEVISION Z	PREPAID BALANCE \$10,500	\$0

602

604

606

FIG. 6

700

OFFER RULE IDENTIFIER 720	SUBSIDIZING PARTY IDENTIFIER 722	SUBSIDY AMOUNT 724	WHEN EFFECTIVE 726	ADDITIONAL TRANSACTION REQUIRED 728
R00001	S11	UP TO \$50	ALWAYS	SIGN UP FOR CREDIT CARD ACCOUNT
R00002	S12	UP TO \$50	TOTAL PRICE > \$300	SIGN UP FOR CREDIT CARD ACCOUNT
R00003	S12	\$40	CREDIT CARD = VISA AND TOTAL PRICE > \$100	SIGN UP FOR VISA PLUS ACCOUNT
R00004	213	\$80	CUSTOMER IS FROM A NEW ENGLAND STATE	SIGN UP FOR CELLULAR TELEPHONE SERVICE
R00005	S14	\$75	CUSTOMER DOES NOT HAVE CABLE TELEVISION FROM SERVICE PROVIDER	SIGN UP FOR CABLE TELEVISION

702  
704  
706  
708  
710

FIG. 7

800

OFFER IDENTIFIER 820	TRANSACTION IDENTIFIER 822	SUBSIDIZING PARTY 824	OFFER RULE APPLIED 826	SUBSIDY AMOUNT 828	TOTAL PRICE 830	TOTAL PRICE WITH SUBSIDY 832	ACCEPTED YES/NO 834
F001	T123	S111	R1230	\$50	\$97.12	\$37.12	YES
F002	T456	S222	R4561	\$100	\$19.95	\$19.95	YES
F003	T789	S345	R7892	\$10	\$10.00	\$0	YES
F004	T109	S678	R0123	\$15	\$15.00	\$0	YES
F005	T555	S901	R3454	\$75	\$48.00	\$0	YES

802 804 806 808 810

FIG. 8

900

SUBSIDIZING PARTY IDENTIFIER: S888				902
TOTAL NUMBER OF OFFERS: 1,794				904
TOTAL NUMBER OF OFFERS ACCEPTED: 1,003				906
TOTAL AMOUNT OF SUBSIDIES: \$52,800.00				908
910 912	OFFER RULE IDENTIFIER	NUMBER OF OFFERS	NUMBER OF OFFERS ACCEPTED	AMOUNT OF SUBSIDIES DUE
	920	922	924	926
	R1111	1004	500	\$2,500.00
	R2222	790	503	\$50,300.00

FIG. 9

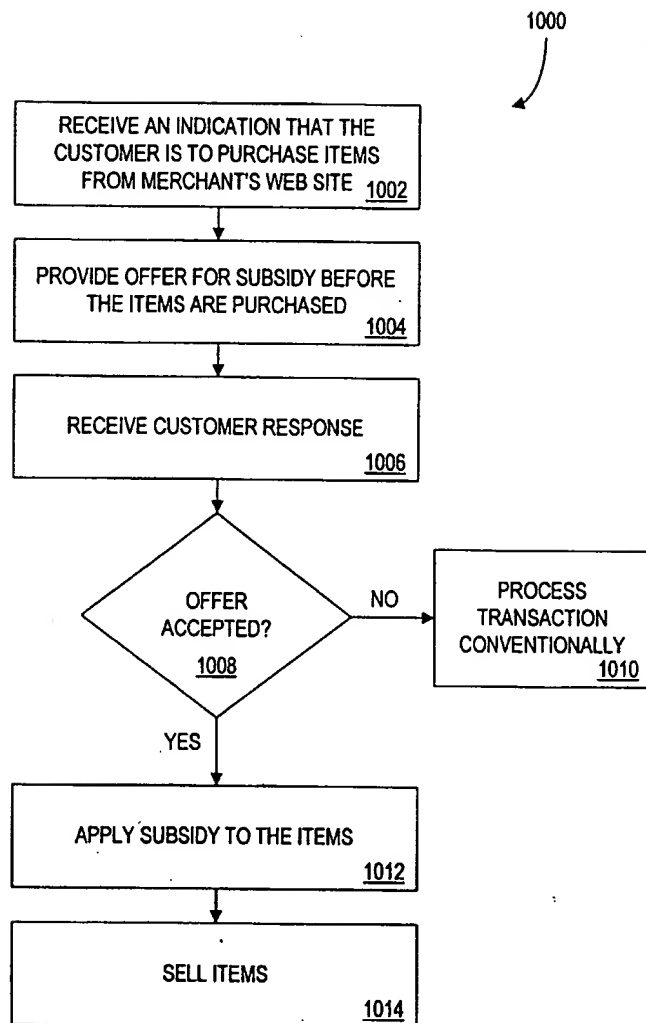


FIG. 10

1100

QUANTITY AND TITLE INFORMATION  
FOR ITEMS IN YOUR SHOPPING CART:

QTY.	TITLE
1	WAR AND PEACE; TOLSTOY, LEO

PRICE \$13.95

SHIPPING \$5.00

TOTAL PRICE \$18.95

CLICK HERE TO SEND  
US YOUR ORDER

GET THIS PURCHASE  
FOR FREE!

1110 1112

FIG. 11

1200

**APPLY FOR A VISA PLUS CREDIT CARD ACCOUNT  
AND YOUR PURCHASE IS ABSOLUTELY FREE!**

APPLICATION FOR CREDIT

NAME:

ADDRESS 1:

ADDRESS 2:

SOC. SEC. NUMBER:

ANNUAL INCOME:

1204

CLICK HERE TO  
COMPLETE THE  
APPLICATION

1202

BACK TO MY  
SHOPPING CART

1206

FIG. 12



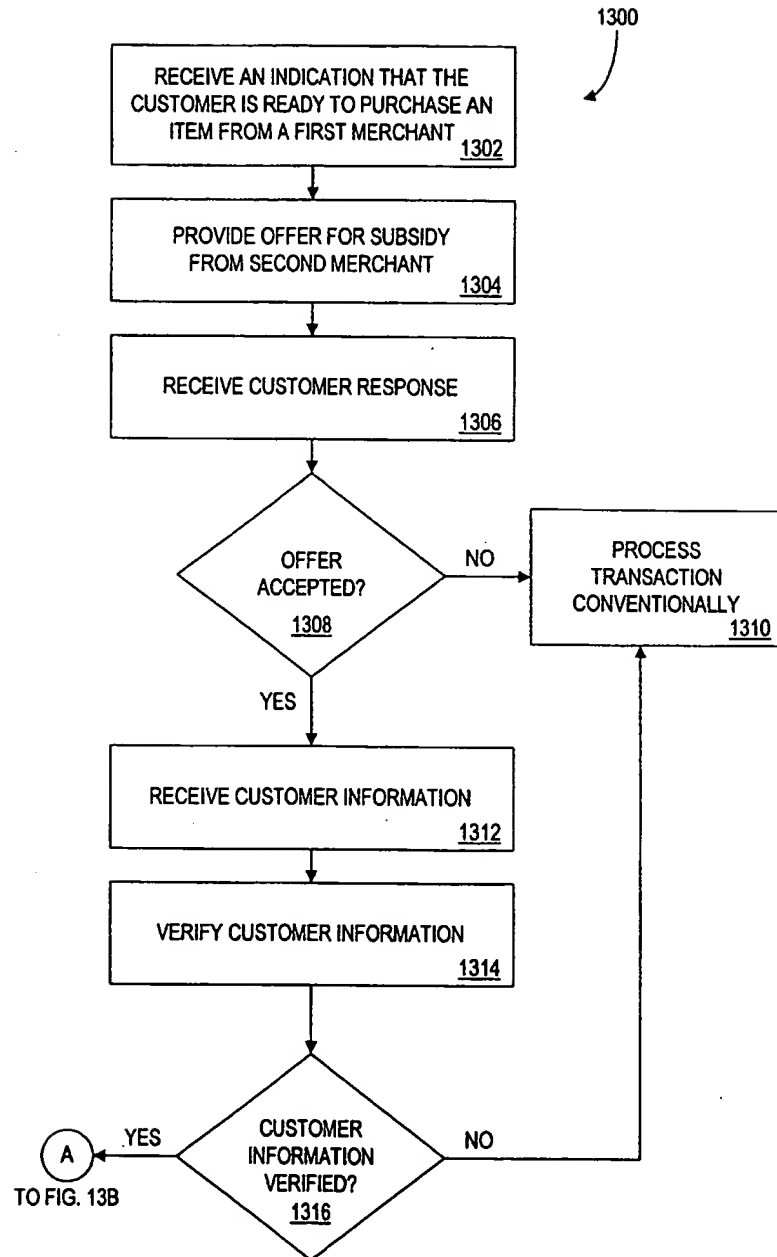


FIG. 13A

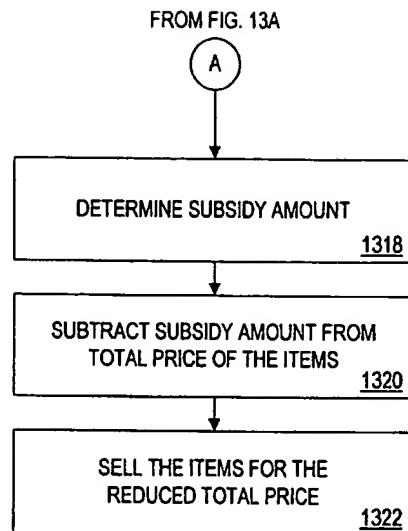


FIG. 13B

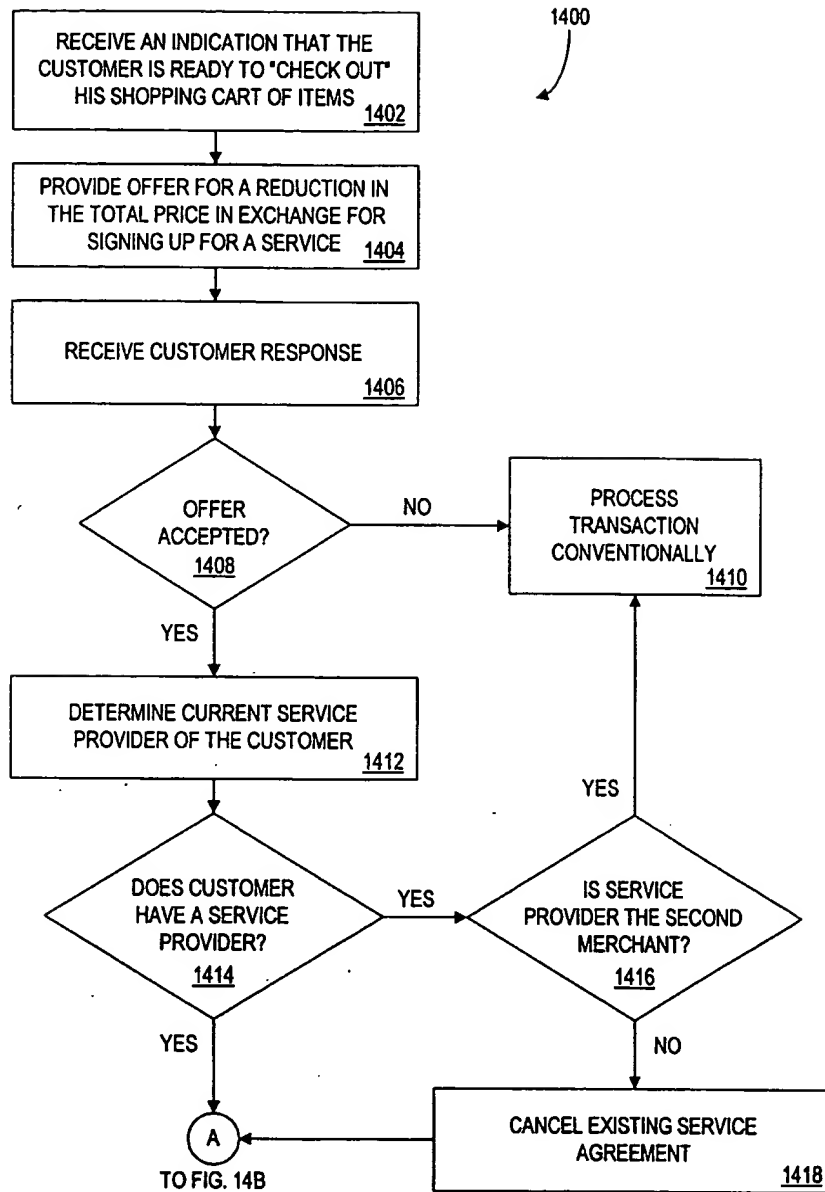


FIG. 14A

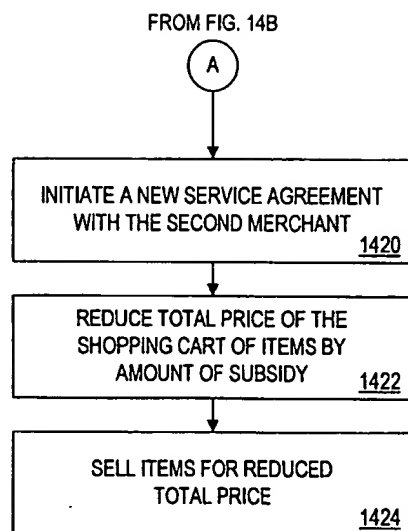


FIG. 14B

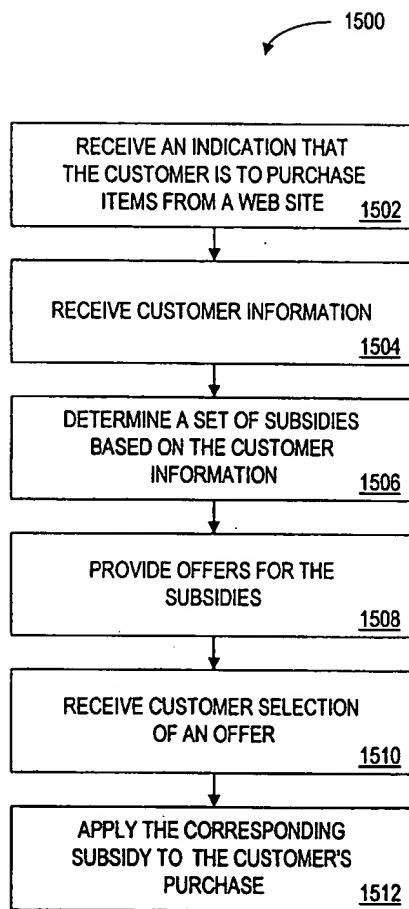


FIG. 15

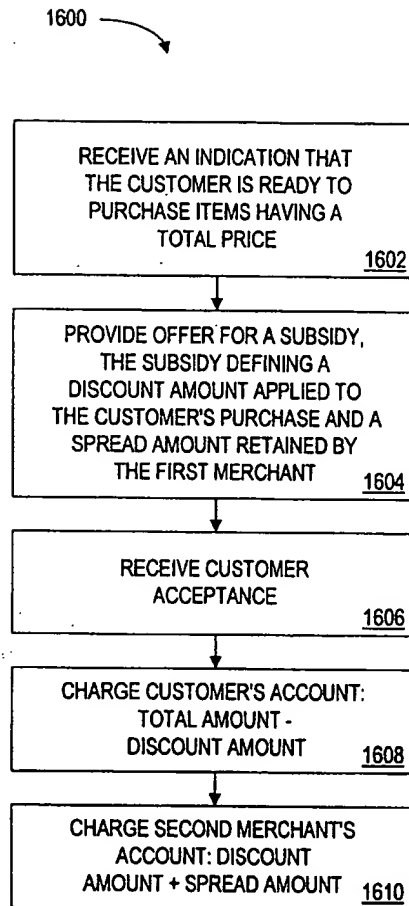


FIG. 16

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/13409

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : G06F 17/60, 17/00

US CL : 705/26, 14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/26, 14, 1, 27, 16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG

Search terms: promotion, rebate, discount, reward, incentive, shopping cart, online shopping, cashback

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 5,434,394 A (ROACH et al) 18 July 1995 Figure 3a, 3b and 3c. col. 1 lines 50-67, col. 2 lines 48-65, col. 6 lines 1-5, col. 10	1, 51, 54 -56, 61-63 ----- 2-50, 52-53, 57-60, 64
X ----- Y	US 5,570,417 A (BYERS) 29 October 1996, abs. col. 4 lines 27-62 col. 5	1, 51, 54 -56, 61-63 ----- 2-50, 52 -53, 57-60, 64
Y	FICKENSCHER, LISA. American Express Seeks to Mine Its Data on Cardholder Spending Patterns. The American Banker. 24 March 1997. p 20	1-64

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

ALLEN MACDONALD

Telephone No. (703) 305-9708

Joni Hill

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/13409

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FICKENSCHER, LISA. Amex to Start Free Rewards Program with Discounts on Merchandise. The American Banker. 18 October 1996 p 10.	1-64
Y	FITZGERALD, KATE. Amex Program Moves Loyalty to Next Level. Advertising Age 04 November 1996 p 2	1-64
Y,P	US 5,893,075 A (PLAINFIELD et al) 06 April 1999 col. 4 lines 51-65, col. 6 lines 36-58	2-50
Y,E	US 5,918,211 A (SLOANE) 29 June 1999 col. 5 lines 64-67, col. 6 lines 1-11 col. 8 lines 1-50	2-50



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